

CLAIMS

1. A particle movement-type display apparatus,
comprising:
a pixel portion,
5 a peripheral area around the pixel portion,
and
particles,
wherein at least a part of the peripheral area
around the pixel portion is provided with a recess
10 portion capable of accommodating a part of the
particles therein.
2. An apparatus according to Claim 1, wherein the
recess portion has a depth which is not less than a
15 diameter of the particles.
3. An apparatus according to Claim 1, wherein the
peripheral area comprises a periphery of a display
portion comprising a plurality of pixel portions and a
20 partition wall for partitioning the pixel portions.
4. An apparatus according to Claim 1, wherein the
peripheral area comprises a partition wall for
partitioning the plurality of pixel portions.
- 25 5. A particle movement-type display apparatus,
comprising:

a first substrate and a second substrate,
a partition wall disposed between the first
and second substrates,

particles disposed at a pixel portion defined
5 by the first substrate, the second substrate and the
partition wall, and

an electrode for moving the particles,
wherein the apparatus further comprises a
structure, which has a projection portion having a
10 height substantially equal to a height of the
partition wall and a recess portion in which a part of
the particles are capable of being accommodated,
disposed at at least a part of a peripheral area
around a display portion comprising the plurality of
15 pixel portions.

6. An apparatus according to Claim 5, wherein the
projection portion has a mesh shape, a linear or
curved line shape, a dot shape, a shape closely
20 surrounding the display portion, a double cross shape,
a cross shape, a honeycomb shape, or a combination of
these shapes.

7. An apparatus according to Claim 5, wherein the
25 projection portion has a line width, which is not more
than ten times a diameter of the particles, at an
upper surface thereof.